```
(METHYLSILANE/CN OR "METHYLSILANE (H3SIME)"/CN OR "METHYLSILANE ANION"/CN)
L1
             2 s
L2
             1
                S
                      "METHYLSILANE HOMOPOLYMER"/CN
L3
            19
                      N.W/ELF OR N W/MF OR (COPPER OR ALUMINUM OR IRON OR BORON OR GALLIUM OR INDIUM OR
                      TANTALUM OR MOLYBDENUM OR TUNGSTEN OR CHROMIUM OR VANADIUM OR NIOBIUM OR TITANIUM
                      OR NICKEL OR IRIDIUM OR RHENIUM) / CN
L4
           150
                      N.W/MF OR N W/ELF
    FILE 'HCAPLUS' ENTERED AT 14:28:03 ON 03 MAR 2005
                      (L1 OR L2) AND ((L3 OR L4) OR CONDUCTIVE(2A) (MATERIAL OR COMPOUND))
L6
            88 s
                S
                      (L1 OR L2) (L) EXPOS#######
L7
            4
                S
            68
                      (L1 OR L2) (L) GAS
L8
               S
                      (L1 OR L2) (L) VAPOR
            79
L9
                S
L10
            0
                      (L1 OR L2) (L) VAPOUR
            78
L11
                 S
                      (L1 OR L2) (L) PLASMA
L12
            27
                 S
                      (L1 OR L2) (L) COAT######
L13
           135
                S
                      (L1 OR L2) (L) DEPOSIT######
L14
            4
                 S
                      (L1 OR L2) (L) PASSIVAT#####
                s
                      (L1 OR L2) AND NONOXIDI?
L15
             1
               S
L16
                      (L1 OR L2) AND NON OXIDI?
             1
            9 s
                      (L1 OR L2) AND PASSIVAT#####
L17
            11 S
                     (L14 OR L15 OR L16 OR L17)
L18
            44 s L6 AND (L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13)
L19
            3 s
                      L18 AND L19
L20
L21
             0 s
                      L7 AND L19
                      L6 AND (L7 OR L8 OR L9 OR L10 OR L11 OR
L22
            45
                S
              L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21)
                      L22 NOT L20
L23
            42 s
            32 s
                      L23 AND 1999-2005/PRY
L24
                      L23 AND 1992-1998/PRY
L25
            4 S.
                S
                      L23 NOT P/DT
             5
L26
                      L26 AND 1999-2005/PY
L27
            4
                 S
L28
             1
                 S
                      L26 NOT L27
L29
            38
                 S
                      L23 NOT L27
                      L29 NOT L24
L30
             6
                 S
                      L25 OR L28 OR L30
L31
             8
                 S
         20095 s
                      (METAL##### OR CONDUCT#####) (W) SUBSTRATE
L32
             3 s
                      (L1 OR L2) AND L32
L33
             0 s L4 AND (L1 OR L2)
L34
```

CAS/STN FILE 'REGISTRY' ENTERED AT 14:22:10 ON 03 MAR 2005

The metal, alloy, and/or ceramic powder layers on a compatible substrate are applied with the use of a preceramic polymer binder to obtain intermediate layers of a composite or cermet, with the polymer pyrolyzed in sintering to obtain a ceramic binder. The shrinkage of the composite or cermet interlayer with a functional gradient is controlled by adjusting the content of preceramic polymer binder. The preceramic binder is typically a poly (methylsilane), polycarbosilane, or a similar polymer with Al, B, Ti, or Zr. The process is suitable for applying Cu-SiC layer on Cu strip surface using the polycarbosilane precursor for Nicalon ceramic binder, and applying the 1st layer of Cu powder and then the 2nd layer of SiC powder with 10 mol% binder in each layer, followed by controlled firing under Ar atmospheric for bonding and sintering.

L133 ANSWER 13 OF 19 HCAPLUS COPYRIGHT ACS on STN

AN 1992:576384 HCAPLUS <DN 117:176384

ED Entered STN: 01 Nov 1992

TI Deposition of tungsten films from mixtures of tungsten hexafluoride, organohydrosilanes, and hydrogen

IN Roberts, David Allen; Garg, Diwakar; Lagendijk, Andre; Hochberg, Arthur

Kenneth; Fine, Stephen Mark

PA	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 486927 CA 2055422 JP 06256951	A1 AA A2	19920527 19920521 19940913	EP 1991-119282 CA 1991-2055422 JP 1991-331378	19911112 19911113 19911120
PRAI	US 1990-616288	A A	19950718 19901120	US 1993-116178	19930902

OS MARPAT 117:176384

W films are chemical-vapor deposited on heated substrates by using H flow and simultaneously introducing a WF6-organohydroxysilane mixture. The W films having a low electoresistance and being essentially free of C, Si, and O are useful in the manufacture of integrated electoricuits. Thus, W was deposited on a Si wafer by reduction of WF6 at 230°. The flow rate of WF6, H2, diethylsilane, and Ar was 25, 300, 20, and 9000 cm3/min, resp. After 15 min, the W film was 340 Å thick. Under similar deposition conditions without the use of diethylsilane, the W film thickness was <150 Å.

IT Vapor deposition processes

(chemical, with tungsten, by reduction of tungsten hexafluoride by hydrogen and organohydroxysilanes)

IT 992-94-9, Methylsilane

(reduction by hydrogen and, of tungsten hexafluoride, for chemical vapor deposition of tungsten films)

SEARCH HISTORY

	FILE	ILE 'REGISTRY' ENTERED AT 13:27:31 ON 04 MAR 2005							
L124		1	SEA ABE	B=ON PLU=	ON METHY	LSILANE/	CN		
L126			SEA ABE			STEN/CN OF	•		
L127		577	SEA ABE	B=ON PLU=	ON N.W/N	1F OR N W,	/ELF OR	TUNGSTEN	NITRIDE
L128		51	SEA ABE	B=ON PLU=	ON AL/MI	OR ALUM	INUM/CN		
	FILE	'HCAPI	HCAPLUS' ENTERED		.3:30:53	ON 04 MAR	2005		
L129		3361	SEA ABE	B=ON PLU=	ON L124	OR METHY	LSILANE	OR METHY	L SILANE OR
			SILYLME	ETHANE OR	SILYL MET	THANE OR	SILAETH	ANE OR MOI	NOSILYLMETHANE
L130		63	SEA ABE	B=ON PLU=	ON (L126	OR L127	OR L128	3) AND L1:	29
L131		29920	SEA ABE	B=ON PLU=	ON (L126	OR L127	OR L128	3)(L)(PLA	TE OR SLAB OR
			SUPPORT	OR BASE	OR SUBSTI	RATE OR SI	HEET OR	WIRE OR	WIRING)
L132		8	SEA ABE	B=ON PLU=	ON L130	AND L131			
L133		19	SEA ABI	B=ON PLU=	ON METHY	LSILANE (6A) (TUNC	SSTEN OR I	ALUMINUM OR
			AL OR V	NOR (TUN	IGSTEN OR	W) (W) NIT	RIDE OR	(ELEMENT	AL OR
			METAL####) (1A)W)						

----Original Message----From: Diaz, Jose